

2823/8

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## Patent Application

**Inventor(s)** Yuliya Akulova  
 Michael Geva  
 Abdallah Ougazzaden

**Case** 3-12-10**Serial No.** 09/645913      **Group Art Unit** 2823**Filing Date** 08/25/2000**Examiner** Michelle Estrada**Title** Dopant Diffusion Barrier Layer and Method of Manufacture

**Assistant Commissioner of Patents**  
**Washington, D.C. 20231**

**SIR:**

Enclosed is an amendment in the above-identified application.

	Total Claims	Previously Submitted	Extra Claim(s)	Fee(s)	Total
Total Claims	62	58	4	18	\$72.00
Independent Claims	4	4	0	0	0
Multiple Dependent Claims	0	0	0	0	0
Total Fee Due					\$72.00

A check for the additional claim fees in the amount of \$72.00 is enclosed.

Please address all correspondence to **Lester H. Birnbaum, 6308 Sauterne Drive, Macungie, PA 18062**. However, telephone calls should be made to me at 610-530-9166.

Respectfully Submitted,

Lester H. Birnbaum  
 Reg. No. 25830  
 Attorney for Applicants  
 610-530-9166

Dated: 3/4/03

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231 on 3/4/03

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**Title** Dopant Diffusion Barrier Layer and Method of Manufacture

**ASSISTANT COMMISSIONER FOR PATENTS**  
**WASHINGTON, D. C. 20231**

**SIR:**

**AMENDMENT**

In response to the Office Action dated 12/13/02, please amend the above-identified application by replacing the claims as shown below. The computer red-lined version of the changes made to these claims are attached for your review.

**IN THE SPECIFICATION**

Please replace the paragraph beginning at page 6, line 1, with the following rewritten paragraph:

B1  
 --In keeping with the teaching of the above captioned parent application, a dopant barrier 112 may be used to prevent p-type dopants from diffusing out of the p-type layer 101 and into the active layer 102. Dopant barrier 112 may be as set forth in the parent application. Alternatively, dopant barrier 112 may be aluminum spikes or aluminum containing spikes as set forth in U.S. Patent Application 09/540,474 filed March 31, 2000. This application is assigned to the assignee of the present invention, and its disclosure is specifically incorporated by reference herein.--

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